PQN AUDIO

Waterproof Audio Transducers

Audio Transducer Installation Instructions

ROHS COMPLIANT · IP68 · CE · REACH COMPLIANT

⚠ WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

Thank you for choosing this PQN product. Audio transducer speakers are simple to use and require no cut outs as with standard speakers. PQN transducer speakers are actual speakers but without the typical speaker cone. The audio signal is transmitted thru a surface with use of a mounting plate instead of projecting sound via a speaker cone. PQN transducers are IP68 waterpproof and will provide years of trouble-free performance.

Warranty Policy

PQN Audio products are warrantied to be free of manufacturing defects for a period of one (1) year. Warranty is subject to proper installation & application. Warranty does not cover exposure to excessive chemical usage or operational abuse. Return defective product prepaid to point of purchase for replacement or refund as determined by PQN. Warranty is not transferable. Proof of Purchase must be included.

PQN is not responsible for speaker failure caused by defects/misuse/mfg issues of other amp/subwoofer products.

PQN ENTERPRISES

Listen To PQN Innovation
Morro Bay, CA 93442
805.794.6475
www.pqnaudio.com

For expert product & technical support contact PQN Audio directly.

Read these instructions completely prior to any installtion

Introduction: Audio Transducers emit/radiate audio instead of projecting, as with typical speakers. There are 3 factors to consider that will dictate transducer performance: Material Type, Thickness & Density. PQN Audio Transducers are used in many products, such as hot tubs, float tanks, float pods, security & medical devices.

Mounting Plate Positioning & Installation Recommendations:

Spa Installs:	Position Transducers ~ 2-4" above waterline on underneath of shell surface
	Position one (1) transducer on each four sides, or
	Position two (2) as a pair on opposite sides. For optimum performance space ~ 18-24" apart, or
	Position two (2) transducer w/ (1) on opposite sides and two (2) w/ (1) on opposite topsides
	Adhere mounting plates with epoxy or embed into fiberglass.
Float Installs:	Position ~1-2" above to ~1-2" below waterline
	Position two (2) transducers at preferred end of tank, or
	Position one (1) transducer on opposite sidewalls. For ideal performance place at shoulder/knee
	Adhere mounting plate with epoxy or embed int fiberglass
Bath Installs:	Position one (1) transducer on opposite sidewalls, or
	Position two (2) transducers on preferred sidewall ~ 18-24" apart
	Position the transducers 1-4" down from topside
	Adhere mounting plate with epoxy or embed into fiberglass
Security Installs:	Secure to metal airducts and/or walls as needed
	Secure glass ~2-6" from window framing
Sauna Installs:	Secure mounting plate with screws, however, adding epoxy will assist with sound performance
	Position transducers either to underside of bench or to wall surface
	Adhere within wall construction

Recommendation: It is always best to test & evaluate various positioning prior to final installations

Note: *Allow mounting plate epoxy to properly cure/dry prior to attaching transducer*
Never use screws to affix mounting plates to tanks, spas or bath surface walls
Use a 2-part epoxy suitable for mounting plate & surface material
Assure epoxy & surface are capable of suspending transducer weight.
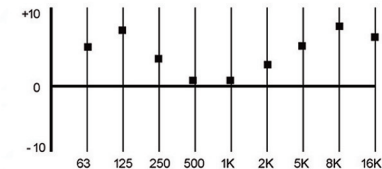
Note: *The sound performance of these transducers should not be evaluated open handed or unmounted. The performance will not be evident and will sound inferior until assembled onto mounting plate and affixed/secured onto chosen project surface.*
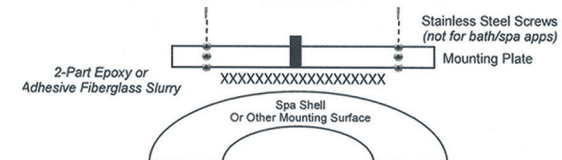
Customizing Audio Performance

1-To optimize yor listening pleasure search your device's audio menu to adjust tonal quality, or for device Equalizer, if available.
2-Typical EQ setting should look similar to curve below, or to your preference.
Note: Excessive low freq distortion may cause transducer damage.

Adjust for speaker clarity and tonal preference

Stainless Steel Screws
(not for bath/spa apps)
Mounting Plate
2-Part Epoxy or
Adhesive Fiberglass Slurry
XXXXXXXXXXXXXXXXXX
Spa Shell Or Other Mounting Surface

WARNING: DO NOT USE Thread Locking Liquids on Mounting Plate Studs

Wiring: PQN Transducers can be wired either (1) per channel, or, for some applications (2) in parallel per channel.

(+)
(-)